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- 1 [High performance discrete Fourier transforms on graphics processors](#)
[Naga K. Govindaraju, Brandon Lloyd, Yuri Dotsenko, Burton Smith, John Manferdelli](#)
 November 2008 **SC '08: Proceedings of the 2008 ACM/IEEE conference on Supercomputing**
Publisher: IEEE Press
 Full text available: [Pdf](#) (1.06 MB) [Additional Information: full citation, abstract, references,](#)
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We present novel algorithms for computing discrete Fourier transforms with high performance hierarchical, mixed radix FFT algorithms for both power-of-two and non-power-of-two algorithms efficiently exploit ...

- 2 [CoMPSoC: A template for composable and predictable multi-processor system on chip](#)
[Andreas Hansson, Kees Goossens, Marco Bekooij, Jos Huisken](#)
 January 2009 **Transactions on Design Automation of Electronic Systems (TODAES)**
Publisher: ACM [Request Permissions](#)
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A growing number of applications, often with firm or soft real-time requirements, are implemented on Chip, in the form of either hardware or software intellectual property. The applications run time, creating ...

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Keywords: Composable, model of computation, network on chip, predictable, system

- 3 [Circuit emulation services over ethernet-part 1: clock synchronization using time-stamping](#)
[James Aweya, Michel Ouellette, Delfin Y. Montuno, Kent Felske](#)
 January 2004 **International Journal of Network Management**, Volume 14 Issue 1
Publisher: John Wiley & Sons, Inc.
 Full text available: [Pdf](#) (260.66 KB) [Additional Information: full citation, abstract, references,](#)
Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 14, Downloads (Overall): 605

Due to Ethernet's ubiquity, simplicity, scalability and cost effectiveness there is significant interest in Ethernet-based access and transport in the metropolitan network. Many service providers are currently establishing ...

- 4 [A dynamically reconfigurable adaptive viterbi decoder](#)
[Sriram Swaminathan, Russell Tessier, Dennis Goeckel, Wayne Burleson](#)

February 2002 **FPGA '02**: Proceedings of the 2002 ACM/SIGDA tenth international symposium on FPGAs and programmable arrays

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (235.26 KB)


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Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 59, Downloads (Overall): 68

The use of error-correcting codes has proven to be an effective way to overcome data communication channels. Although widely-used, the most popular communications decoding algorithm, requires an exponential ...

Keywords: FPGA, Viterbi coding, dynamic reconfiguration

5 [Practical experience teaching embedded systems](#)

 [Carlos Almeida](#)

October 2008 **SIGBED Review**, Volume 5 Issue 3

Publisher: ACM

Full text available:  [Pdf](#) (139.91 KB)


Additional Information: [full citation](#), [abstract](#), [references](#),

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 43, Downloads (Overall): 43,

The area of embedded systems and their interconnection is of utmost importance now: evolution, and widespread use, of small electronic devices with processing and communication potential for the development ...

Keywords: embedded systems development, embedded systems education

6 [Stability analysis of active clock deskewing systems using a control theoretic approach](#)

 [Vinil Varghese](#), [Tom Chen](#), [Peter Young](#)

January 2005 **ASP-DAC '05**: Proceedings of the 2005 Asia and South Pacific Design Automation Conference

Publisher: ACM


Full text available:  [Pdf](#) (460.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#),

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 15, Downloads (Overall): 85,

In this paper, a methodology for analyzing closed loop clock distribution and active deskewing network is modelled as a closed loop feedback system. ...

7 [Towards geo-spatial hypermedia: Concepts and prototype implementation](#)

 [Kaj Grønbaek](#), [Peter Posselt Vestergaard](#), [Peter Ørbæk](#)

June 2002 **HYPERTEXT '02**: Proceedings of the thirteenth ACM conference on Hypertext and Hypermedia

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (940.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#),

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 68, Downloads (Overall): 841

This paper combines spatial hypermedia with techniques from Geographical Information Systems. We describe the Topos 3D Spatial Hypermedia system and how it has been designed. ...

Keywords: 3D, GIS, geo-spatial, information management, spatial hypermedia

8 [Lowering the barrier to wireless and mobile experimentation](#)



Brian White, Jay Lepreau, Shashi Guruprasad

January 2003 **SIGCOMM Computer Communication Review**, Volume 33 Issue 1

Publisher: ACM

Full text available: Pdf (204.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#),

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 24, Downloads (Overall): 412

The success of *ns* highlights the importance of an infrastructure that enables efficient e
Netbed's automatic configuration and control of emulated and live network environmer
configuring and ...

9 [Proceeding of the 18th ACM conference on Information and knowledge managem](#)



David Cheung, Il-Yeol Song, Wesley Chu, Xiaohua Hu, Jimmy Lin

November 2009 **CIKM '09: Proceeding of the 18th ACM conference on Information and kn**

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n

On behalf of the organizing committee, we wholeheartedly welcome you to the ACM Ei
Conference on Information and Knowledge Management (CIKM 2009). We hope this cc
and beneficial. CIKM 2009 was originally ...

10 [GPGPU: general purpose computation on graphics hardware](#)



David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff W

August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (63.03 MB)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 136, Downloads (12 Months): 1423, Downloads (Overall)

The graphics processor (GPU) on today's commodity video cards has evolved into an e
processor. The latest graphics architectures provide tremendous memory bandwidth a
with fully programmable vertex ...

11 [Implicit-signal monitors](#)



Peter A. Buhr, Ashif S. Harji

November 2005 **Transactions on Programming Languages and Systems (TOPLAS)**,

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (1.77 MB)

Additional Information: [full citation](#), [abstract](#), [references](#),

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 104, Downloads (Overall): 4

An implicit (automatic) signal monitor uses a **waituntil predicate** statement to constru
to an explicit-signal monitor using condition variables and **signal/ wait** statements for

Keywords: Automatic signal, concurrency, explicit signal, implicit signal, monitor, par

12 [System-level power optimization: techniques and tools](#)



Luca Benini, Giovanni de Micheli

April 2000 **Transactions on Design Automation of Electronic Systems (TODAES)**

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (385.22 KB)

Additional Information: [full citation](#), [abstract](#), [references](#),



Bibliometrics: Downloads (6 Weeks): 59, Downloads (12 Months): 576, Downloads (Overall): 4

This tutorial surveys design methods for energy-efficient system-level design. We cons of a hardware platform and software layers. We consider the three major constituents energy, namely computation, ...

13 [Communications of the ACM: Volume 52 Issue 4](#)


 April 2009 Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (7.58 MB) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 372, Downloads (12 Months): 1939, Downloads (Overall):

14 [Interactive sound rendering](#)

 Dinesh Manocha, Paul Calamia, Ming C. Lin, Dinesh Manocha, Lauri Savioja, Nicolas Tsing August 2009 **SIGGRAPH '09: SIGGRAPH 2009 Courses**

Publisher: ACM


Full text available:  [Pdf](#) (62.61 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 355, Downloads (12 Months): 355, Downloads (Overall):

An overview of algorithmic and software technologies related to interactive sound rend three main topics: physically based techniques to synthesize sounds generated from cc efficient computation ...

15 [Level set and PDE methods for computer graphics](#)

 David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (17.07 MB)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 94, Downloads (12 Months): 957, Downloads (Overall): 5

Level set methods, an important class of partial differential equation (PDE) methods, d as the level set (iso-surface) of a sampled, evolving nD function. The course begins wi introduces the ...

16 [Queue: Volume 6 Issue 4](#)

 July 2008 Queue


Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (6.13 MB) Additional Information: [full citation](#), [abstract](#), [index te](#)

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 240, Downloads (Overall): 5

Flash is growing from mere curiosity to a new tier in the storage hierarchy.

17 [Communications of the ACM: Volume 52 Issue 7](#)


 July 2009 Communications of the ACM

Publisher: ACM


Full text available:  [Digital Edition](#) ,  [Pdf](#) (7.61 MB) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 491, Downloads (12 Months): 491, Downloads (Overall):

18 [Communications of the ACM: Volume 52 Issue 5](#)


 May 2009 Communications of the ACM

Publisher: ACM


Full text available:  [Digital Edition](#) ,  [Pdf](#) (7.31 MB) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 478, Downloads (12 Months): 1656, Downloads (Overall):

19 [Communications of the ACM: Volume 51 Issue 12](#)


 December 2008 Communications of the ACM

Publisher: ACM

Full text available:  [Digital Edition](#) ,  [Pdf](#) (6.91 MB) Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 504, Downloads (12 Months): 3097, Downloads (Overall):

20 [Investigating a physically-based signal power model for robust low power wireless](#)

 Tai Rusak, Philip A. Lewis

October 2008 **MSWiM '08: Proceedings of the 11th international symposium on Modeling, wireless and mobile systems**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (734.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#),





Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 55, Downloads (Overall): 71,

We propose deriving wireless simulation models from experimental traces of radio signal experimental traces have holes due to packet losses, we explore two algorithms for fill experimental traces. Using completed ...

Keywords: wireless link simulation, wireless sensor networks

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